## In the Claims

 (Currently Amended) A method for machine-milking a dairy animal without substantially increasing milking time, the method comprising the steps of:

defining a standard pressure changing phase duration in which no changes to pressure changing speed rates are made;

pressure changing speed rates are made;
generating with a pulsator a pulsed vacuum in a pulse chamber of a teat cup by
altering the vacuum in the pulse chamber during pressure changing phases;
controlling the pulsator to reflect a pressure curve for the duration of one pressure
changing phase having a first pressure changing speed rate and a second pressure
changing speed rate, two pressure changing speed rates to induce a first speed of
liner movement during the first pressure changing speed rate and induce a second
speed of liner movement during the second pressure changing speed rate; and
controlling the pulsator to retain retaining the total duration for the pressure
changing phase, with the two first and second pressure changing speed rates, to not
substantially exceed to a duration that is insignificantly longer than the defined
standard pressure changing phase duration.

- 2. (Currently Amended) The method according to claim 1, wherein the step of controlling the <u>pulsator to reflect a</u> pressure curve includes the step of:
  - adjusting the pulsed vacuum during the pressure changing phase.
- (Currently Amended) The method according to claim 1, wherein the step of
  controlling the <u>pulsator to reflect a pressure curve</u> includes the step of:
  controlling the pulsed vacuum during the ventilation phase.

 (Currently Amended) The method according to claim 1, wherein the step of controlling the <u>pulsator to reflect a</u> pressure curve includes the step of:

controlling the pulsed vacuum during the evacuation phase.

5. (Currently Amended) The method according to claim 1, and further comprising the step of:

changing the pressure changing speed rates of the  $\underline{\text{pulsator}}$  substantially continuously.

- 6. (Canceled)
- 7. (Currently Amended) The method according to claim 1, wherein the step of controlling the <u>pulsator to reflect a pressure curve comprises the steps of:</u> controlling a first stage and a subsequent stage of a ventilation phase such that the pressure changing speed rate in the first stage is substantially flatter than in the subsequent stage.
- 8. (Currently Amended) The method according to claim 1, wherein the step of controlling the pulsator to reflect a pressure curve includes the steps-of: controlling a first stage and a subsequent stage of the evacuation phase such that the pressure changing speed rate in the first stage is substantially steeper than in the subsequent stage.
- 9. (Currently Amended) The method according to claim 1, and further comprising the step of:

shifting from one pressure changing speed rate of the pulsator to another pressure changing speed rate of the pulsator occurs while the pressure in the pulse chamber when a liner is in contact with an animal's teat.

- 10. (Currently Amended) The method according to claim 1, and further-comprising wherein the step of: controlling the pressure curve for the duration of the pressure changing phase comprises the step of: operating a pulsator valve used in generating to generate the pulsed vacuum.
- 11. (Previously Presented) The method according to claim 10, and further comprising the step of:

varying a free flow vacuum resistance between the teat cup and the pulsator valve.

12. (Previously Presented) The method according to claim 10, and further comprising the step of:

changing a valve chamber cross-section of the pulsator valve to vary vacuum in the chamber.

- 13. (Previously Presented) The method according to claim 10, and further comprising the step of:
- adjusting a valve chamber cross-section of the pulsator valve in multiple stages.
- (Previously Presented) The method according to claim 10, and further comprising: continuously changing a valve chamber cross-section of the pulsator valve.
- 15. (Previously Presented) The method according to claim 12, and further comprising the step of:

maintaining a pulsator valve body of the pulsator valve in a floating position in at least one stage of the pressure changing phase.

16. (Previously Presented) The method according to claim 12, and further comprising the step of:

maintaining a pulsator valve body of the pulsator valve in a variable floating position in at least one stage of the pressure changing phase.

17. (Currently Amended) The method according to claim 1, and further comprising the steps of:

measuring pressure in the pulse chamber; and  ${\rm controlling} * {\rm \underline{the}} \; {\rm pulsator} \; {\rm \underline{adjusting}} \; {\rm \underline{unit}} \; {\rm based} \; {\rm on} \; {\rm the} \; {\rm pressure} \; {\rm measurement}.$ 

18. (Currently Amended) A pulsator for a milker unit for milking an animal for alternatively connecting a vacuum source and a pressure source to a pulse chamber of at least one teat cup, the pulsator comprising:

a controller for a <u>pulsator valve for alternatively connecting the vacuum source and</u>
the pressure source to the pulse chamber of the teat cup to reflect adjusting a
pressure-time curve during a pressure changing phase having two pressure
ehanging speed rates a first pressure changing speed rate and a second pressure
changing speed rate, to induce a first speed of liner movement during the first
pressure changing speed rate and a second speed of liner movement during the
second pressure changing speed rate; wherein the duration of the pressure changing
phase does not exceed is insignificantly longer than a duration of a pressure
changing phase of a predetermined pressure changing phase using no controlled
changes in pressure changing speed rate.

- 19. (Canceled)
- 20. (Previously Presented) The pulsator according to claim 18, and further comprising:

a timing element for adjusting the duration of a stage of a pressure changing phase.

- (Currently Amended) The pulsator according to claim 18, wherein the controller controls the pulsator valve to reflect a pressure curve during the ventilation phase.
- (Currently Amended) The pulsator according to claim 18, wherein the controller controls the pulsator valve to reflect a pressure curve during the evacuation phase.
- 23. (Currently Amended) The pulsator according to claim 18, and further comprising: wherein a the pulsator valve having comprises: a valve chamber having a variable valve chamber cross-section, the pulsator valve being in communication with the controller.
- (Currently Amended) The pulsator according to claim 23, wherein the valve chamber cross-section is variable in a single stage.
- (Previously Presented) The pulsator according to claim 23, wherein the valve chamber cross-section is variable in a plurality of stages.
- 26. (Currently Amended) The pulsator according to claim 18, and further comprising: wherein a valve and the pressure-time curve of the pressure changing phase is adjustable in dependence on a pulsator valve characteristic of the valve.
- 27. (Previously Presented) The pulsator according to claim 18, and further comprising: a pilot valve in communication with the controller, and a main valve in communication with the pilot valve.
- (Previously Presented) The pulsator according to claim 18, and further comprising:
   a direct valve in communication with the controller.
- (Canceled)
- 30. (Canceled)

 (Previously Presented) The pulsator according to claim 23, wherein the valve chamber defines a plurality of cross-sections.

- (Previously Presented) The pulsator according to claim 18, and further comprising:
   a nozzle in communication with the controller.
- 33. (Currently Amended) The pulsator according to claim 18, and further comprising:
  a wherein the pulsator valve is in communication with the controller, and the pulsator valve defining defines a pulsator valve chamber; and the pulsator further comprises
  a valve closing element disposed in the pulsator valve chamber for movement
- therein.

  34. (Canceled)